

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 June 2005 (23.06.2005)

PCT

(10) International Publication Number
WO 2005/057932 A1

(51) International Patent Classification⁷: **H04N 7/24**

Sunbi Maeul Apt., Songchon-dong, Daedeok-gu, 306-778
Daejeon (KR).

(21) International Application Number:
PCT/KR2003/002922

(74) Agent: **SHINSUNG PATENT FIRM**; Haecheon Bldg.,
741-40, Yeoksam 1-dong, Kangnam-gu, 135-924 Seoul
(KR).

(22) International Filing Date:
30 December 2003 (30.12.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO,
CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB,
GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG,
KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2003-0089159
9 December 2003 (09.12.2003) KR

(84) Designated States (*regional*): ARIPO patent (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): ELEC-
TRONICS AND TELECOMMUNICATIONS RE-
SEARCH INSTITUTE [KR/KR]; 161, Gajeong-dong,
Yuseong-gu, 305-350 Daejeon (KR).

(72) Inventors; and

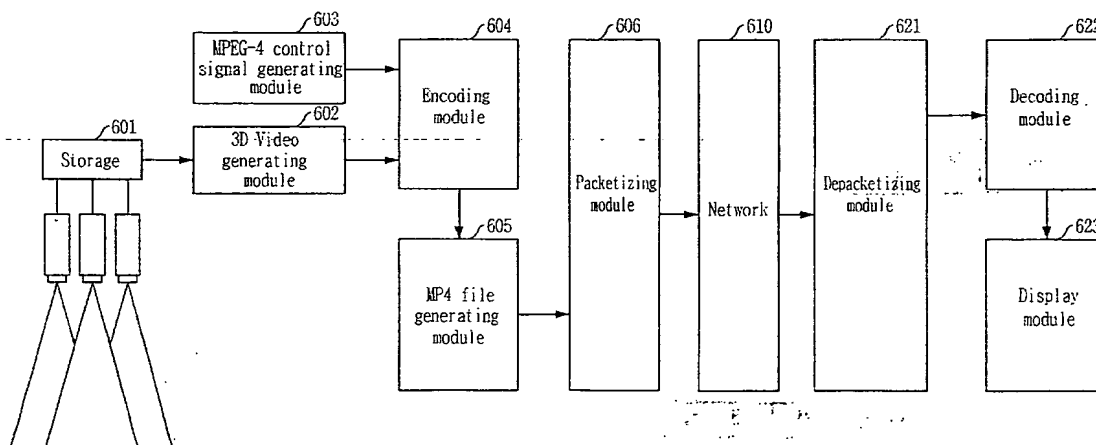
(75) Inventors/Applicants (*for US only*): **YUN, Kug-Jin**
[KR/KR]; #102-903 Hanul Apt., Sinseong-dong,
Yuseong-gu, 305-707 Daejeon (KR). **CHO, Suk-Hee**
[KR/KR]; #301, 137-11, Sinseong-dong, Yuseong-gu,
305-345 Daejeon (KR). **AHN, Chung-Hyun** [KR/KR];
#101-705 Hyundai Apt., Doryong-dong, Yuseong-gu,
305-340 Daejeon (KR). **LEE, Soo-In** [KR/KR]; #401-701

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: APPARATUS AND METHOD FOR PROCESSING 3D VIDEO BASED ON MPEG-4 OBJECT DESCRIPTOR IN-
FORMATION



(57) Abstract: The present invention relates to three-dimensional video processing apparatus and method using MPEG-4 object descriptor information and structures. The three-dimensional video processing apparatus and method that can support a three-dimensional video service smoothly to thereby provide a sense of reality and a cubic effect in an MPEG-4-based system by suggesting a three-dimensional video object descriptor structure and providing to a client an object descriptor, which includes information on kind of three-dimensional video, number of viewpoints, number of media streams and a plurality of display methods; and a method thereof.